TIIP - OVERVIEW

TAIWAN INDUSTRIAL CLUSTER IN INDIA

印度第一個台灣高科技產業園區
The TIIP Park is close to Bangalore International Airport, which will be developed as an integrated industrial township for Taiwanese high-tech industries, targeting Electronics, Smart machinery, Electric Vehicle and Biotechnology Industries.

**TIIP Objectives**

The TIIP Park is close to Bangalore International Airport, which will be developed as an integrated industrial township for Taiwanese high-tech industries, targeting Electronics, Smart machinery, Electric Vehicle and Biotechnology Industries.

**PROJECT DEVELOPMENT**

**Two phases**

as an integrated industrial township with over 50000 population.

**TOTAL AREA**

160 acres

(64 hectares) It’s aimed to be an international Manufacturing cluster.
Aerospace Park
(990 acres, incl. 250 acres SEZ)

IT Park
(1360 acres)

Hardware Park
(1100 acres)

- SHELL
- FFG, TAIWAN
- AMADA
- STARRAG
  (Swiss machine tools manufacturer)

Major Locators:
- SHELL
- FFG, TAIWAN
- AMADA
- STARRAG

A joint venture between Rolls-Royce (the world's second largest aircraft engine manufacturer) and Hindustan Aeronautics Limited (HAL)
SUPPORTING FUNCTIONS & SURROUNDING DEVELOPMENTS

- IFCI
- Reliance Jio
- Brigade
- TIIP
- SHELL
- Hotel
- FFG
- Intl School
- Cricket Academy
- Factories
- High-End Residence
**LOCATIONAL ADVANTAGE: SEAMLESS CONNECTIVITY**

- **Nearest Airport Passenger** — Bangalore International Airport, 10 KM – 15 MINS
  Connecting flights to Taipei & Japan via BKK, SIN, HK & KL

- **Nearest Airport Cargo** — Bangalore International Cargo Terminal, 7 KM – 10 MINS
  Upcoming new Cargo terminal just 10 mins drive from TIIP

- **Nearest Major Port** - Chennai, 350 KM Closest from East Asia, 5-6 HOURS
  8 TO 10 DAYS FROM JAPAN & TAIWAN
  With new CBEC time will be shorten to 3 Hours

- **Market Reach through Economic Corridors**
  Connection to major cities of India - Chennai, Hyderabad, Mumbai, Pune & Kolkata via Economic Corridors.

- **Taiwan Desk & Management**
  Taiwan Various Govt. Desk Provision at TIIP
  One Stop Solution, ETP & Sub-Station & Power Back Up
LOCATION AND TRANSPORT

Highway 104
Cargo 10 mins

To CBD, 30 KM, 45 mins

Bangalore International Airport

NH 44
BK Halli Road Passenger 15 mins

Highway 104 Cargo 10 mins

To CBD, 30 KM, 45 mins
DEVELOPMENT PLAN

PHASE 2
90 ACRE (36 公頃)

PHASE 1
70 ACRE (28 公頃)

25 ACRE
Residential Area

Innovation Park – Bio-Tech

EV Cluster

Software Park

Admin Building and Service Center

High-tech Manufacturing Hub

Electronics

PARK PLAN
## Development Plan – Phase 1

<table>
<thead>
<tr>
<th>Particular</th>
<th>Area</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACRE</td>
<td>SQM</td>
</tr>
<tr>
<td>Land</td>
<td>70</td>
<td>183,280</td>
</tr>
<tr>
<td>Industrial</td>
<td>67.5</td>
<td>273,105</td>
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<tr>
<td>Service Center</td>
<td>2.5</td>
<td>10,115</td>
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</table>

Admin. Bldg. & Service Center

![Map of Development Plan – Phase 1](image)
PHASE & STAGE WISE DEVELOPMENT

1st Stage

2nd Stage

一期一區 (約 36 英畝)

一期二區 (約 34 英畝)
PHASE & STAGE WISE DEVELOPMENT
PHASE & STAGE WISE DEVELOPMENT
行政大樓
ADMIN BUILDING
<table>
<thead>
<tr>
<th>Particulars</th>
<th>Area (SQM)</th>
<th>Ratio</th>
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<tbody>
<tr>
<td>Taiwan Desk</td>
<td>650</td>
<td>3.25%</td>
</tr>
<tr>
<td>Office</td>
<td>7,000</td>
<td>35.00%</td>
</tr>
<tr>
<td>Business Center</td>
<td>1,200</td>
<td>6.00%</td>
</tr>
<tr>
<td>Service Apartment</td>
<td>3,250</td>
<td>16.25%</td>
</tr>
<tr>
<td>Amenities</td>
<td>1,400</td>
<td>7.00%</td>
</tr>
<tr>
<td>Common Area</td>
<td>6,500</td>
<td>32.50%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20,000</strong></td>
<td><strong>100.00%</strong></td>
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**SERVICE CENTER PROGRAMS**

Taiwan Desk  
One Stop Service  
Service Apartments  
Various Space Solution
TRAINING CENTER

- Recruitment
- On Job Training
- Back Office Support
- Professional Onsite / Offsite support
INVESTOR SERVICES

- Business Center
- Conference Room
- Business Registration
- Admin Service
- Common Reception
- Market Survey
- Taxation & Accounting
- Legal Advice
- Showroom
基礎設施
INFRASTRUCTURE
**Treated Water capacity**

- 40 MLD (Million liters per day) is currently ready.
- 250mm Pipeline on both sides of road.

**Cost of treated water supply price**

- Roughly 40Rs. / 1KL

**Water supply point for CDC Park**

- Entry point of CDC park at Plot No.6 where roads connects the Plot.

**Potable Water Supply**

- 5MLD of potable water supply for Whole Park under planning.
- (Yet to get approval, excess capacity from airport line which is 4Km from park, correspondence going on with BWSSB).

**Other Water Line**

- In plan is from Yelanka (16-20Km) away from park. Capacity 2MLD ; Time Frame 10 months to 1 year. (2020).

**Current Power Capacity**

- Is of 2,00,000 KVA for entire Aerospace Hi-Tech Defense park.

**Commitment on power supply**

- 15000 KVA available to the CDC Park, if need more need to apply with BESCOM directly.

**Supply available from entry point of TIIP park.**

- 30M road side has equipped 16MVA (4MVA X4) cable

**New solar power grid coming up in nearby location**

- Biggest in Asia with 300MW capacity.

**There will be no sudden power cuts in Industrial/IT park. If any power cuts will be announced in advance by BESCOM.**

**Note:** Government Order agrees the supply of electricity power to be 35 MVA. 11 KV electricity lines are inspected on the site and available now.
BASIC INFRASTRUCTURE

- **Road System**: 30m width main road and 18m width secondary road
- **Lighting System**: solar powered street lighting system with central control
- **Green belt and Blue belt** to maximize the conservation of natural inhabitants
- **Water collecting system** for both rainwater and wastewater
- **Public parking** for visitors and staffs
Essential Facilities

- **Power substation** and electricity networks
- **Telecom facilities** and networks
- **Water treatment plant**
- **Water tank** and water supply system
Hi-Tech Manufacturing Hub – Electronics

For the development of smart electronics, cutting-edge technology and sophisticated medical care building High-Tech Industrial Park in Bangalore equipped with latest technology & automation companies. To create a strong base in upcoming / advanced India Market for Taiwanese and the international manufacturing enterprises.
Electric Vehicle Cluster

The electric vehicle is the best positioned option for the mass replacement of traditional cars in the market in the medium and long term. This will require developing an important infrastructure for the electric recharging of vehicles. TIIP ensures to provide state of art EV cluster to all International and domestic companies with Plug-In solutions and Technology centers.
From our past proved track record and experience of NKPS the Bangalore Park will aim at providing the most reliable infrastructure and comfortable park environment to our high-tech and R&D enterprises.
Creating a good living environment inside the park to attract talents. We plan to develop staff apartments and other supporting facilities, so that foreign employees of MNCs have a comfortable living space, at the same time helping enterprises to efficiently manage the welfare needs of employees.
At the same time serving more than 50,000 people in the park, by setting up staff restaurants, banks, commercial facilities, gym and other recreational facilities to enhance the experience and competitiveness of employees.

A baffle gate is a form of gate which allows one person to pass at time. It can be made so as to enforce one-way traffic of people and in addition, it can restrict passage only to people who insert/scan a valid ID proof/smart card. It acts like smart security system.
2. **Smart Car Entry.**

   This smart feature works on RFID (Radio Frequency Identification). A RFID reader is a device which is used to interrogate an RFID tag. It reads the unique number from the RFID cards and sends it to the microcontroller. This system helps in reducing the heavy traffic congestion, time and fuel since the tag can be deciphered from a distance.

Finding a parking lot in a congested city is very hard. By using smart parking system a user will be able to find an available parking lot easily using mobile or web app from anywhere. The system updates parking data every 30 seconds. (Ref: ARTIK cloud based smart parking system)
4. **Smart Lightning with Solar LED.**

Smart lightning is a lighting technology designed for energy efficiency. This may include high efficiency fixtures and automated controls that make adjustments based on conditions such as occupancy or daylight availability with solar panels for street lights.
基礎設施

PROJECT TIMELINE & SCHEDULE
POTENTIAL INDUSTRIES CLUSTER

Integrated Circuits
- IC Design
- Mask-Making
- Testing Services
- IC Packaging
- IC Supporting Industry

Computer & Peripherals
- Micro-computer System
- Input Device
- Output Device
- Storage Device
- Network Device
- Power Supply
- Connector
- Software
- Electronics Components

Telecom
- Switching System Equipment
- Transmission Equipment
- Customer Terminal Equipment
- Wireless Communication Equipment

Optoelectronics
- Optoelectronic Material Device & AMP System
- Solar Cell
- FPD
- CRT
- Optical Information
- Optical Devices & AMP System
- Battery

Precision Machinery
- Automation System
- Precision Instrument & AMP Equipment
- Precision Components
- Precision Tools & AMP Molding

Electric Vehicle
- Energy Management System
- Battery Management System
- System Integration
Thank you!

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